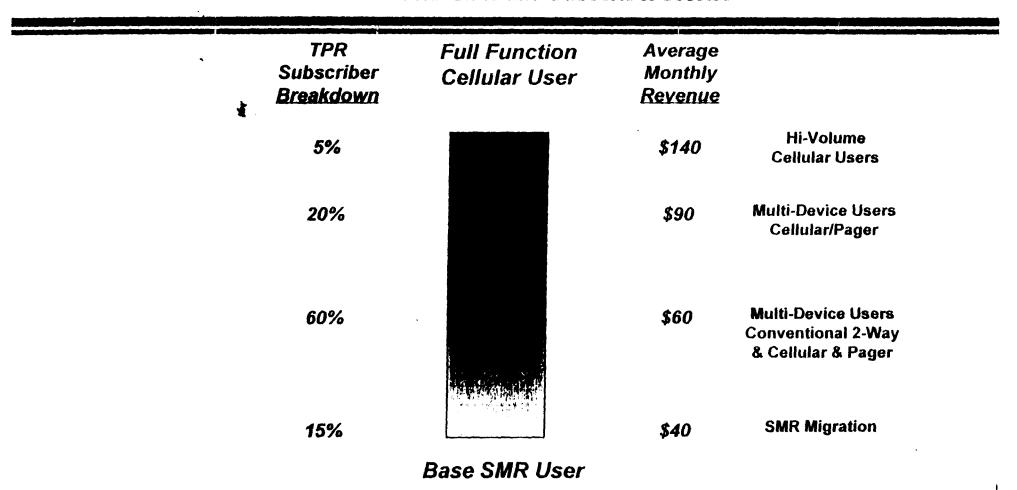
Market Plan Introduction

TPR's iDEN System Market Segments

Market <u>Segment</u>	Primary Benefits	Secondary Benefits	Other Benefits	Average Revenue Per <u>Subscriber</u>
Hi-Volume Cellular Users	-Instant Access & Cost Savings on Intra-Company Communications -Competitve Rates -Excellent Voice Clarity -Integrated Answering Machine	-Digital Privacy -Fraud Protection -Call Alert -Small Talk Group	-Second Number Pager -One Touch Callback -IndustryNET -Alpha Phone-Book	\$ 140
Multi-Device Users Cellular/Pager	-Second Pager # vs.Single Access # -One touch callback -Instant Access & Cost Savings on Intra-Company Communications -Competitive Rates	-Digital Privacy -Single bill -Integrated Answering Machine -Single Device -Message Storage on System	-Fraud Protection -Group Call Capable -Call Alert	\$90
Multi-Device Users Conventional 2-Way & Cellular & Pager	-Island Wide Instant Access -Competitive Rates -Excellent Voice Quality -Digital Privacy -Equipment Price	-Single Device Bill -Single Bill -Call Alert -Message Storage on System -One Touch Callback	-Call Restrictions -Military Specs on Units -Group Call Capable	# \$60 Mm
SMR Migration	-Island Wide Instant Access -Competitive Rates -Equipment Price -Excellent Voice Clarity	-Military Specs on Units -Digital Privacy -Cellular Capabilities -System Access (low blocking)	-Call Restrictions -Fraud Protection -Single Number Access -Call Alert	\$40
Family Communications TeleCellular de Puerto Rico Confidential Do not cor	-Competitive Rates -Instant Family Communications , International Talk Group	-Single Bill -One-Stop Shopping -Excellent Voice Clarity	-Integrated Answering Machine -Call Alert -Call Restrictions	\$ Future Products

Market Plan Introduction

TPR's iDEN Revenue and Subscriber Profile



Market Plan Introduction

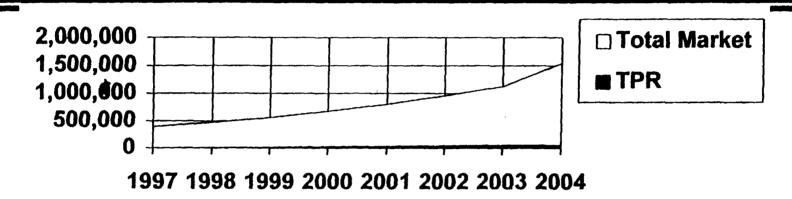
TPR's Market Penetration Summary

Market	Total Market <u>Size</u>	TPR Projection	Total TPR % Penetration	Market Segments
Cellular New Entrants @ 40% Penetration Next 8 Years	800,000	-		Multiple Device Users Hi-Volume Cell Users
Cellular Replacement @ 15% per year	120.000	-		20% cell/pager Users
Total TPR of New & Replacement Market	920,000	60,000	6.5%	
SMR-Existing Conversion of existing users	13,000	5,200	40%	High End SMR Users Existing analog SMR
SMR-New Entrants from Conventional 2-Way Radios Frost & Sullivan Projections	22,000	10,000	45%	7% of 2-Way/Cellular 20% cell/pager Users

Market Plan

Introduction

TPR's Cellular Market Share is never over 6.0% of Cellular Market

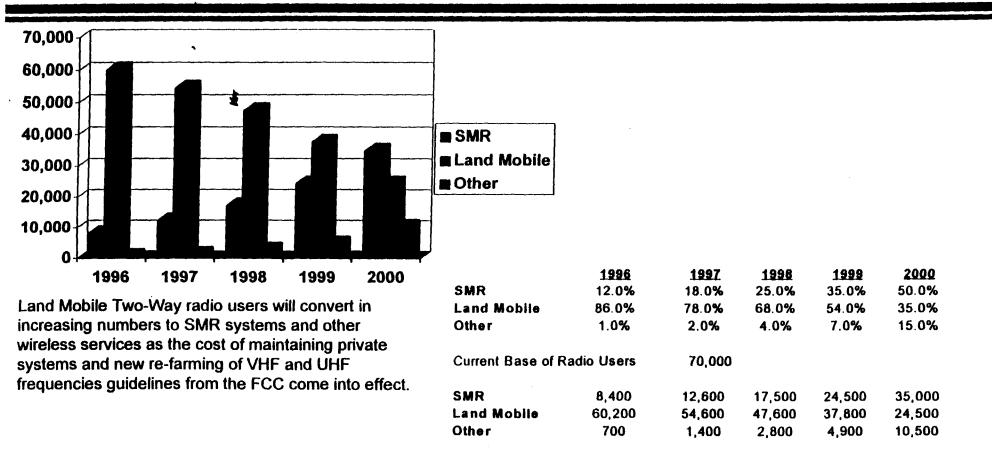


Year	i	2	3	4	5	6	7	8
	1 <u>997</u>	1998	1999	2000	2001	2002	2003	2004
TPR Total Subscribers	0	11,400	24,510	39,159	52,343	64,209	74,888	75,949
TPR Cellular Users	0.0%	9,120	19,608	31,327	41,874	51,367	59,910	60,759
TOTAL TPR % Cellular Market		2.0%	3.6%	4.8%	5.5%	5.7%	5.6%	4.1%
Total Cellular Market Market Penetration %	395,000	466,100	549,998	648,998	765,817	903,664	1,066,324	1,484,749
	9.0%	12.3%	14.5%	16.9%	19.9%	23.5%	27.7%	38.6%
New Users into Market		71,100	83,898	99,000	116,820	137,847	162,660	418,425
TPR Share % of New Users		12.8%	15.6%	14.8%	11.3%	8.6%	6.6%	0.3%

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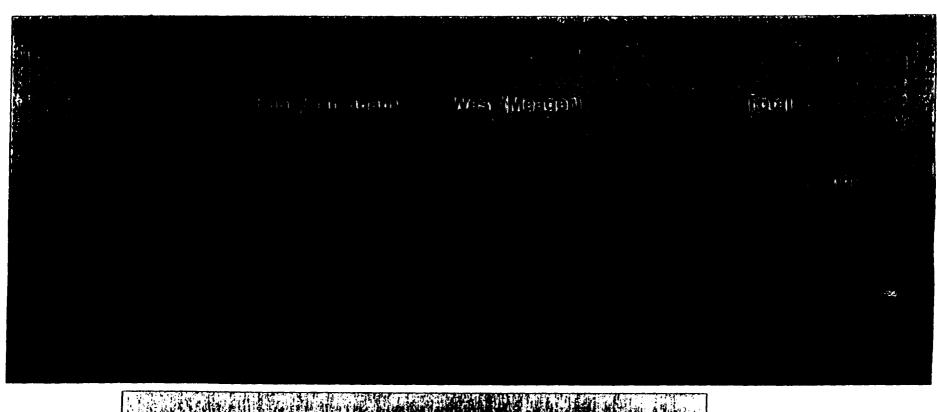
Market Plan Introduction

Frost & Sullivan Two-Way Land Mobile Projections as applied to Puerto Rico Market



TPR's use of Motorola iDEN infrastructure and subscribers give it a unique position in the market to participate not only those users migrating to SMR but also those migrating to Cellular and other wireless technologies.

Bids for PCS Licenses in Puerto Rico





Strategis Group "U.S. PCS Marketplace :1997"





Cellular Industry Growth

"Cellular Market to Grow at 13 Percent Rate for 5 Years"

• The market research firm IDC-Link says that the cellular and paging sectors of the U.S. wireless industry increased by 22 percent in 1996, down from a gain of 31 percent in 1995. The U.S. cellular industry had 41.9 million customers by the end of 1996, a 34.1 percent jump from 1995. The industry earned revenues of \$25.3 billion, a rise of 11.9 percent, according to IDC-Link. Investor's Business Daily (02/11/97)

"Ericsson Revises Upward Forecast of World's Cellular Subscribers"

February 10, 1997 -- Ericsson has revised it's forecast for the world's cellular subscribers upwards. From an estimated total of 137 million at the end of 1996, an increase by close to 50 million or 57 percent over 1995, the total number at the end of year 2000 is expected to be 480 million. Extended to 2001 the world will have some 590 million subscribers. Years 1997 to 1999 are predicted to have approximately 205, 285 and 380 million respectively.

Geographically, North America was the largest market in 1996 with an estimated 47 million subscribers followed by Asia-Pacific with 42 and Western Europe 36 million. With its very high growth rate Asia-Pacific will surpass North America in 1997 with an expected 68 million against 61.

Of the estimated increase of close to 50 million in 1996, 33 million or 65 percent were digital subscribers. From 1999 on, more than 100 percent of the net total increase will be digital as analog will peak in 1998.

Seen over a 5 year period, 1996 to 2001, digital subscribers are expected to grow 10-fold, from 50 million to 500 million. Of the 33 million net increase in digital subscribers in 1996, 98 percent were in TDMA-based technologies; GSM, D-AMPS and PDC.

Cellular Industry Growth Projections

Wireless Subscribers

ŧ	1996	2001	2005
Cellular			
Donaldson	43,500,000	74,125,000	91,463,000
Paul Kagan	44,300,000	79,900,000	94,900,000
PCS			
Donaldson	300,000	19,775,000	40,438,000
Paul Kagan	300,000	18,400,000	37,200,000
ESMR			
Paul Kagan	480,000	4,268,000	10,355,000
Mobile Satellite			
Business Week	7,000,000		
Cordless*CEMA	59,000,000	83,000,000	108,000,000
Source:CTIA Web p	age		

^{*}Cordless is not a subscription service. Number refers to units in use.

Market Focus Observations

Wireless Market

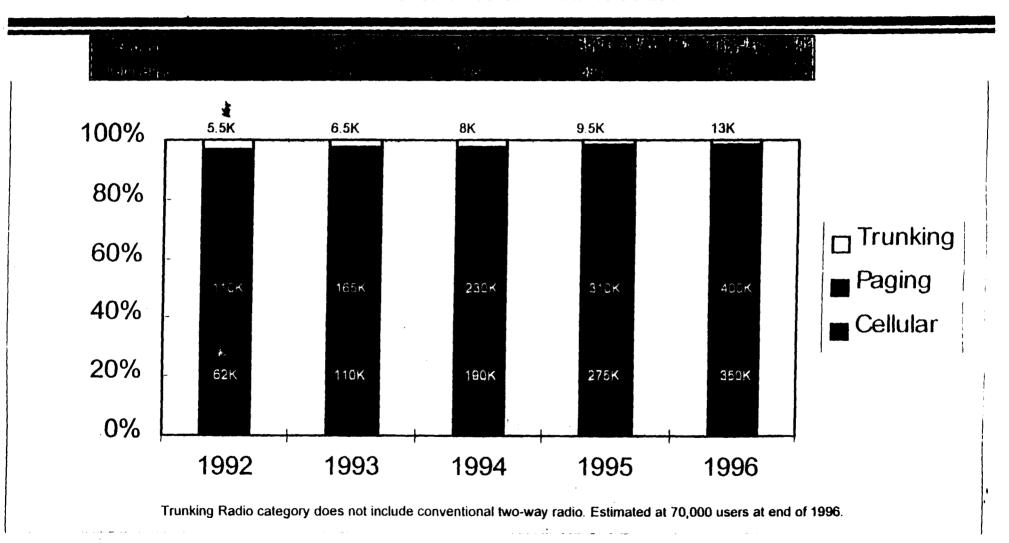
- Historically wireless services have shown to be complementary to each other and have promoted growth of each other.
- The introduction of cellular did not, in spite of forecasts to the contrary, make paging disappear.
- Although displacement has occurred outright substitution has not.
- The use of pagers as a means to screen incoming cellular calls has prompted cellular companies to offer paging service and to offer integrated phone/pager handsets.
- The ability to use integrated radio/cellphone and integrated radio/pager will be attractive to many two-way and analog SMR radio users.
- Where a wireless device is inappropriately used, businesses have substituted. It is typical
 when cellular phone have been used when SMR/dispatch was more appropriate and costeffective.
- Historically SMR services have had greater acceptance when cellular is being offered.

Puerto Rico Wireless Market Highlights

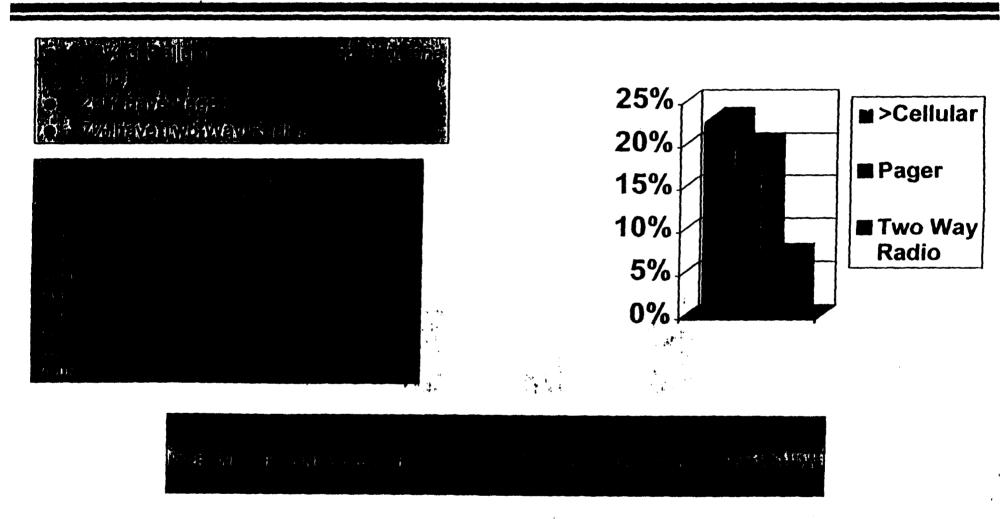
Market Summary.

- New Federal Telecommunications regulations has prompted decrease in intra-island rates. The intra island market has been opened for competition among the long distance carriers.
- Due to more open and intense competition, Puerto Rico's government has decided to sell the PR Telephone Co. This includes Celulares Telefonica which sells and markets cellular and paging service.
- Centennial de Puerto Rico went commercial with a CDMA system, offering limited metro (San Juan) area coverage, late December 1996. As of April of 1997 they have 15,000 subscribers.
- -Cellular Communications of Puerto Rico holding company of Cellular One has restructured with the stated objective of pursuing additional business opportunities in and outside of Puerto Rico.
- Puerto Rico's trunking industry is under-developed.
- FCC regulations limited two-way growth in the past, due to the 40 mile regulatory rule which prevented adequate (ISLAND-WIDE) market coverage.
- Cost of setting up coverage has limited many of the operators to coverage of local (single site) systems or wide area systems with limited capacity.
- Trunking equipment maintains the highest wireless price point in Puerto Rico.
- Wireless exposure is abundant.
- Cellular's (10%) and paging's (13%) wireless penetration are approaching mass market appeal.
- Celpage after their merge with competitor TPI has become the largest pager company in Puerto Rico. They have initiated an expansion into the Latin American market.

Puerto Rico Wireless Installed Base

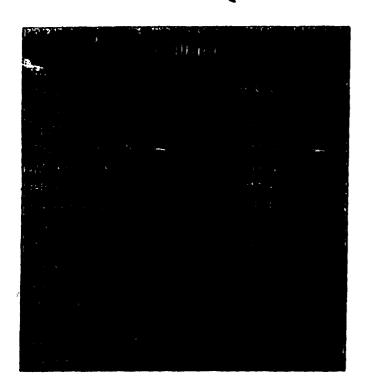


Multiple Device Market in Puerto Rico



Source: Cellular Integration Magazine; December 1995

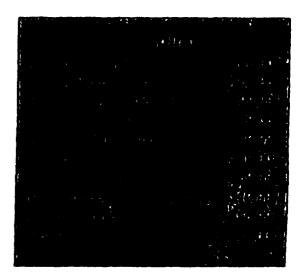
Puerto Rico Wireless Retail Pricing



Cellular- Pricing based on one year contract. Sources: Cellular One; PRTC; Centennial and reseller placed ads.

Trunking (SMR)	Radios
Motorola Base GTX	1,400
Motorola Visar	1,200
GE Base	1,200
Uniden Base	1,100
Motorola MTX (portable)	895
GE (portable)	850
Uniden Portable Said	воо
Motorola GTX (попаріє)	800
Standard HX582T	675

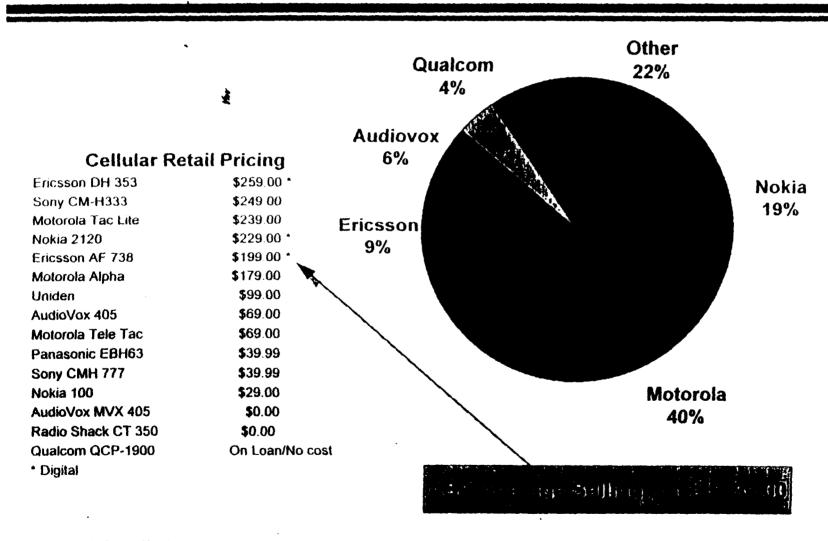
Trunking: Pricing includes \$25 activation fee.



Paging: Requires \$30 activation fee

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Cellular Phone Market Share by Brand



Market Participants Cellular

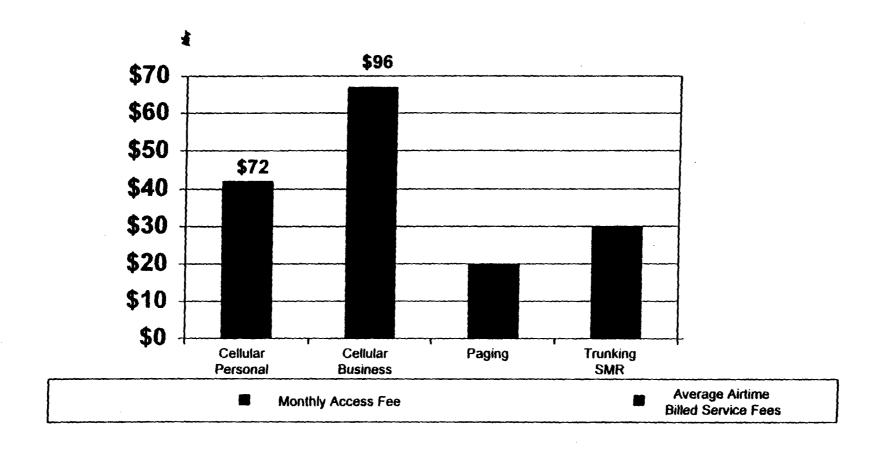
- Celulares Telefonica (Puerto Rico Telephone Co.) Analog in transition to TDMA Digital-Ericsson
- ◆ Cellular One (CCPR) Cellular "A" Analog in transition to TDMA Digital-Nortel
- ◆ Centennial (CATV) PCS CDMA Lucent Technologies
- ◆ AT&T Wireless PCS TDMA or Ericsson (Lucent Technologies)
- ◆ Sprint Spectrum PCS CDMA- Lucent Technologies
- PCS 2000 PCS no announcement
- ◆ Telecellular de Puerto Rico, Inc. TDMA-Motorola iDEN

Cellular/PCS Carrier Offering Summary

_	Centennial	Cellular One	Celulares Telefonica
Set-up costs	Programming \$99.95 Includes digital phone	Activation \$100.00 Phone: \$89.95 to \$339.00	Digital phone \$199.00
Contract	No requirements	One to two years	Minimum one year contract
	Exchange Program- \$49.95 credit applicable to 1st. bill		
Additional Phones on the same contract	Companion \$16.95	\$14.95 plus cost of telephone; \$35.00 Activation fee \$0.39 per minute	\$14.95 plus cost of telephone; \$35.00 Activation fee \$0.39 per minute
Other	· ·	\$4.95 add 500 minutes talktime for calls on weekends	

Source: The San Juan Star 3/97

Puerto Rico Average Monthly Wireless Service Fees



Puerto Rico Cellular Airtime Service Rates

Celulares Telefonica PR Telephone				
•	Quantity	•	Minutes	Per Additional
Option	of Lines	Monthly Fee	Included	Minute
Individual Plan		•		
A	1-4	\$ 35.99	. 0	\$ 0.35
В	1-4	\$ 59.99	75	\$ 0.33
C	1-4	\$79.99	150	\$0.30
D	1-4	\$ 119.99	30	\$ 0.27
Corporate Plan				
E	5-10	\$ 31.95	8	\$ 0.35
F	11-24	\$ 30.95	8	\$ 0.25
G	25+	\$29.95	8	\$0.25
Associates				
H	50+	\$32.00	6	\$0.25
Group				
•	10-29	\$32.00	6	\$0.27
	30-49	\$32.00	6	\$0.26
	50+	\$32.00	6	\$0.25
Security Plan				
K	1	\$ 19.95	0	\$ 0.89

Trunking Airtime Service Rates

North Site Communications (Uniden /LTR System)

Plan Monthly Fee

Local Area (Sal Juan-Metro Area) \$15

Local Area (Mayaguez, Ponce) \$10-\$12

Multi-Site \$20-\$25

Island Wide (3 or more repeaters) \$30-\$40

Telephone interconnect is not offered. Total of seven sites.

Industrial & Communications Electronics (Ericsson/GE System)

Plan Monthly Fee

Local \$15-\$20 Island Wide \$35-\$40

Castle Tower, previously Motorola Network Services (Motorola Privacy Plus System)

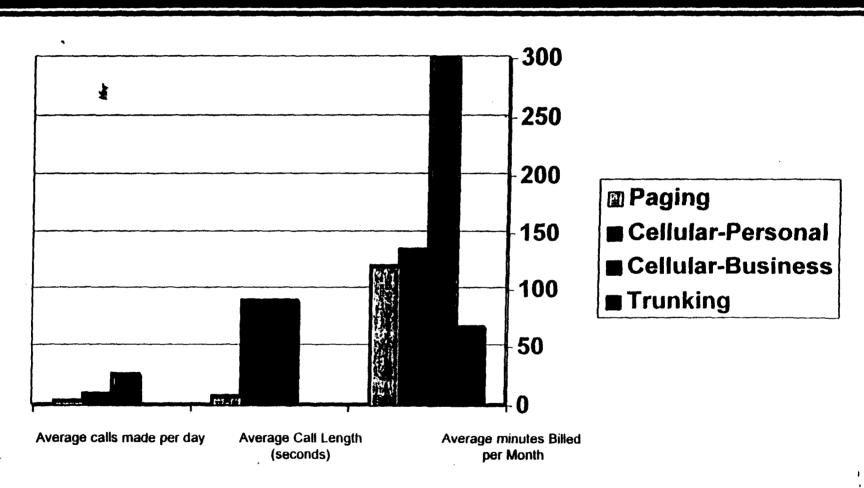
Plan Monthly Fee

Local (San Juan-Metro Area) \$20 Island Wide (Three sites) \$40-\$45

Sources: SMR Dealers and carriers.

Note: Fees may be discounted based on amount of radios activated.

Average Call Patterns



Paging column is for calls made per month Trunking is for average minutes used per month

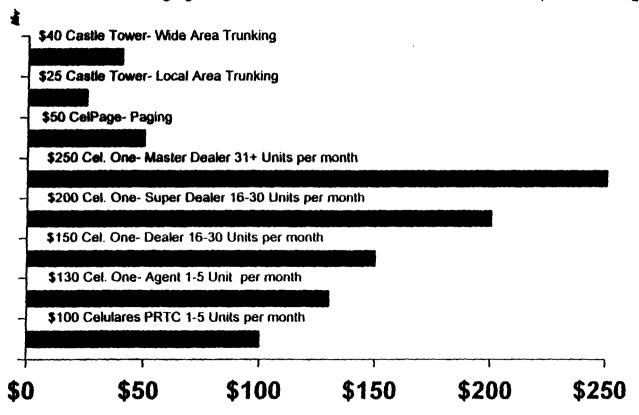
Characteristics of Puerto Rico SMR Market

- There are no registered business failures among SMR operators and only one change of ownership registered during the last five years.
- Fragmented with no major marketing initiatives or alternate distribution channels other than their own direct sales force, except, agreements with some radio distributors.
- Very little advertising- except in special newspaper supplements by all operators- only four ads have been noted in the two major daily newspapers during the last eighteen months. Conventional two-way radio advertising has been more intense with seven ads.
- Portable market (80%)- majority of users prefer portable subscribers; will use mobile radios for increased coverage purposes.
- Coverage very important but difficult.-users accept gaps in island wide coverage. Island wide coverage is the preferred mode for the majority of users.
- Offering for metro area coverage has excessive capacity. Motorola, High Tech, M. Muñoz and others
 offer metro area coverage. None of these systems are loaded. A situation of excess capacity will
 translate into stronger competition and price erosion for this market segment.

Average Carrier Commissions to Indirect Channel

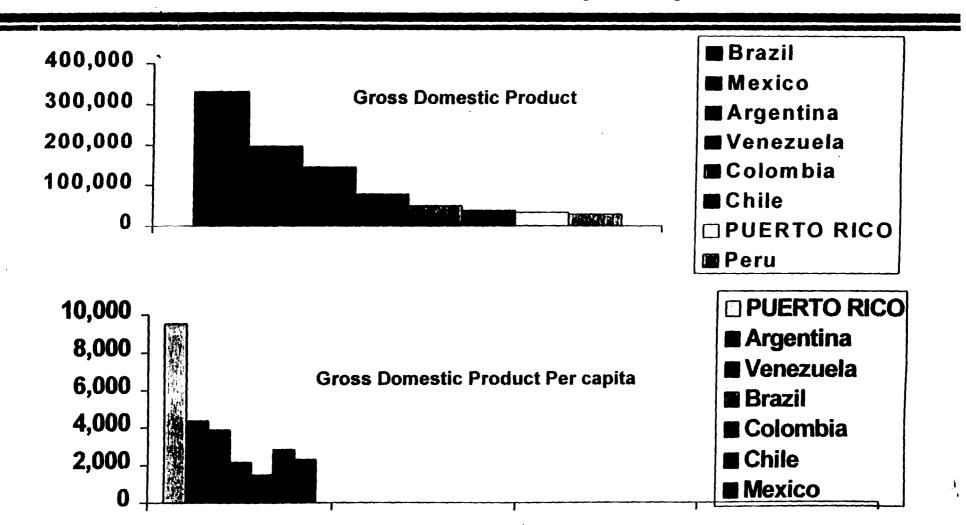
Commissions Involving Airtime

- Trunking provides one month of airtime fee per activation; channel provides subscribers.
- Paging sells blocks of numbers to resellers. Resellers provide billing and collection.

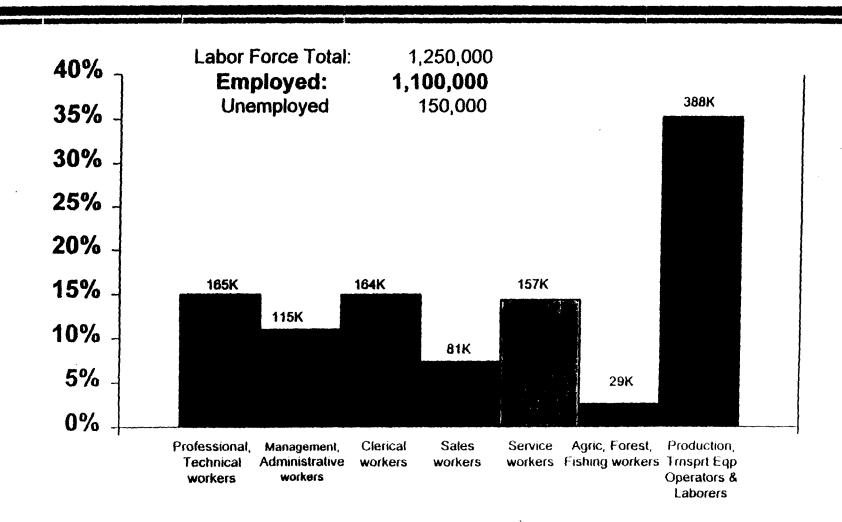


Sources: Castle Tower, CelPage, resellers and dealers.

1992 Gross Domestic Product and Per Capita Comparisons



Puerto Rico Employment by Occupation Type



Source: PR Department of Labor & Human Resources

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